

**Before the
Federal Communications Commission
Washington, D.C. 20554**

In the Matter of)
Advanced Television Systems and Their) MB Docket No. 87-268
Impact upon the Existing Television Broadcast)
Service)
)

SUPPLEMENT TO PETITION FOR PARTIAL RECONSIDERATION

Granite Broadcasting Corporation (“Granite”), by its attorneys, hereby supplements its petition for partial reconsideration of the *Seventh Report and Order* (“Order”)¹ of the Federal Communications Commission (“FCC” or “Commission”) in which the Commission adopted a digital television (“DTV”) table of allotments and associated Appendix B facility specifications (“Appendix B”).² This supplement requests reconsideration of the theoretical antenna pattern specified in Appendix B for station WEEK-TV, Peoria, Illinois (“WEEK”). As discussed herein, the antenna pattern specified in Appendix B for WEEK restricts its ability to build post-transition DTV facilities that replicate its current analog coverage area. Specifically, Granite urges the FCC to amend Appendix B to reflect WEEK’s existing analog antenna pattern—FCC Pattern Number 46320—as its allotted antenna pattern.

In Appendix B, the Commission specified antenna pattern 75203 for WEEK’s post-transition DTV facilities, at an effective radiated power (“ERP”) of 246 kW. This antenna

¹ See Advanced Television Systems and Their Impact upon the Existing Television Broadcast Service, MM Docket No. 87-268, *Seventh Report and Order and Eighth Further Notice of Proposed Rulemaking*, FCC 07-138 (rel. Aug. 6, 2007) (“Order”).

² See Granite Broadcasting Corp., Petition for Partial Reconsideration (filed Oct. 10, 2007).

pattern, however, does not match to the azimuth pattern of WEEK’s existing analog antenna, which WEEK intends to use for its post-transition DTV operations.³ Specifically, as depicted in Figure 1 of the attached Engineering Statement, in some directions, the pattern of WEEK’s analog antenna exceeds the pattern of the antenna specified in Appendix B by approximately 1.4 dB. Thus, to build the facilities allotted in Appendix B using its existing analog antenna, WEEK would be required to reduce its ERP from 246 kW to 178 kW. Such reduced power facilities, however, would not enable WEEK to replicate its current analog service area. Accordingly, the Commission should amend Appendix B to reflect WEEK’s existing analog antenna azimuth pattern as its allotted antenna pattern. As demonstrated in the attached Engineering Statement, changing WEEK’s allotment as requested will not cause new interference to any other station in excess of the FCC’s 0.1% standard.

In the *Order*, the FCC purported to provide WEEK with facilities that would enable it to replicate its certified facilities. However, given the theoretical antenna pattern specified in Appendix B, what the Commission really did was provide for facilities that fall short of WEEK’s certified facilities. Accordingly, reconsideration is warranted with respect to WEEK. Specifically, Appendix B should be revised to specify the antenna pattern highlighted below:

³ In fact, there is no antenna presently manufactured with a pattern that matches the WEEK-DT, FCD25, pattern specified in Appendix B.

Call Sign	Fac ID	Allotted Antenna Pattern	Requested Antenna Pattern
WEEK-TV	24801	75203	46320

Respectfully submitted,

GRANITE BROADCASTING CORPORATION

By: /s/ Tom W. Davidson

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October 26, 2007

Its Attorneys

**TV Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
MB Docket 87-268 Seventh R&O Petition for Reconsideration**

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained by WEEK-TV License, Inc., licensee of TV Station WEEK-TV, N25/D57/FCD25, Peoria, Illinois, to prepare an engineering statement in support of a Petition for Reconsideration of the Seventh Report and Order ("7R&O") to MB Docket 87-268.

**Request To Substitute WEEK-TV, N25, Azimuth Pattern
for the FCD25, Appendix B, Replication Pattern**

In the 7R&O Appendix B, WEEK-DT was assigned an effective radiated power (ERP) of 246 kW. However, the replication pattern (FCC Pattern Number 75203), derived from the WEEK-DT, D57 antenna pattern (FCC Pattern Number 46321), does not match the azimuth pattern of the existing WEEK-TV, N25, Dielectric Model TUA-O4-16/16H-1-T-R panel antenna (FCC Pattern Number 46230). As shown by the attached Figure 1, a polar plot comparing these two azimuth patterns, in some directions the existing N25 pattern exceeds the FCD25 Appendix B replication pattern by approximately 1.4 dB; and in other directions, the FCD25 replication pattern has up to 0.5 dB less power than the N25 pattern. In order to not extend the WEEK-DT FCD25 DTV Threshold contour, this would require reducing the post-transition power from 246 kW to 178 kW. Even if no DTV power reduction was necessary to comply with the Freeze Order, the FCD25 Appendix B replication pattern would still not truly replicate the current NTSC coverage, because the pattern maximas and minimas occur at different azimuths than the N25 pattern maximas and minimas.

It is therefore requested that the WEEK-DT FCD25 azimuth pattern be changed to the WEEK-TV, N25, pattern. As shown by the OET-69 interference studies in the attached Figures 2 and 3, this would not cause in excess of 0.1% "*de minimis*" new interference to any other station. Figure 2 shows the predicted interference for the WEEK-DT FCD25 facilities using the Appendix B replication pattern; the predicted interference to KWKB-DT, FCD25, Iowa City, Iowa, is 1.06%, and the predicted interference to WRTV-DT, FCD25, Indianapolis, Indiana, is 0.07%. Figure 3 shows the predicted inference if the WEEK-TV, N25, antenna pattern is substituted: The KWKB-DT interference becomes 1.10%, and the WRTV-DT interference remains at 0.07%. Thus, the incremental interference to KWKB-DT would be 0.04%, and the incremental interference to WRTV-DT would be 0.00%, both of which round to zero interference when rounded to the nearest 1/10% percent, as per Page 8 of the Commission's August 10, 1998, Public Notice "Additional Application Processing Guidelines for Digital Television (DTV)."

**TV Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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Summary

Substitution of the in-place, existing WEEK-TV, N25, azimuth pattern (FCC Pattern Number 46320) for the present WEEK-DT, FCD25, Appendix B replication pattern (FCC Pattern Number 75203) would not cause increased interference to any other station and would allow WEEK-DT to use its existing N25 antenna without having to reduce power. Since no interference to other stations would be caused, the proposed pattern substitution would be in the public interest.

List of Figures

In carrying out these engineering studies, the following attached figures were prepared under my direct supervision:

1. Comparison of WEEK-TV N25 azimuth pattern to WEEK-DT FCD25 Appendix B replication pattern
2. OET-69 interference study for WEEK-DT, FCD25, Appendix B facilities
3. OET-69 interference study for WEEK-DT, FCD25, using WEEK-TV, N25, azimuth pattern (with no other changes).



October 26, 2007



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

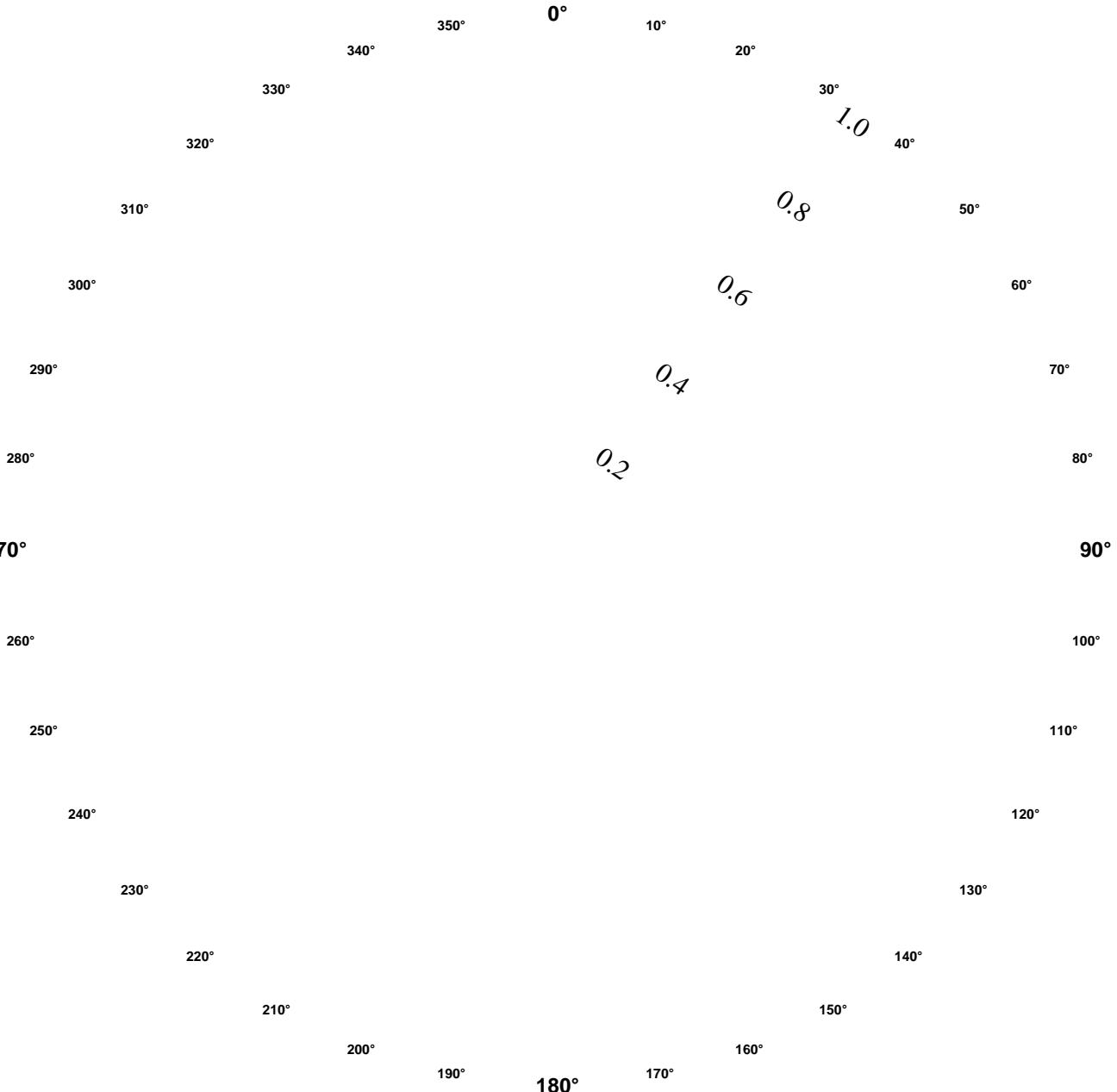
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Page 2 of 2

N25/D57/FCD25
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**WEEK-TV, N25, Pattern versus
 WEEK-DT, FCD25, Appendix B Replication Pattern**

- Relative Field -

North



= WEEK-TV, N25 Pattern (FCC Pattern Number 46320)
 = WEEK-DT, FCD25, Appendix B Replication Pattern
 (FCC Pattern Number 75203)

**Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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**OET-69 Interference Study for WEEK-DT, FCD25, Using Appendix B FCD25
Replication Pattern and 246 kW ERP Appendix B Power**

Percent allowed new interference: 0.100
Percent allowed new interference to Class A: 0.100
Census data selected 2000

Post Transition Data Base Selected
/space/software/cdbs/tvdb.sff_B
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 10-24-2007 Time: 15:16:39

Record Selected for Analysis

WEEK USERRECORD-01 PEORIA IL US
Channel 25 ERP 245.8 kW HAAT 211. m RCAMSL 00400 m
Latitude 040-37-46 Longitude 0089-32-53
Status APP Zone 2 Border
Dir Antenna Make CDB Model 00000000075203 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	105.133	256.6	75.0
45.0	171.583	185.8	72.3
90.0	105.133	172.4	68.9
135.0	171.583	193.1	72.8
180.0	105.133	180.7	69.5
225.0	171.583	226.4	75.3
270.0	105.133	230.7	73.1
315.0	171.583	241.8	76.5

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WEEK 25 PEORIA IL USERRECORD01

**Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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**OET-69 Interference Study for WEEK-DT, FCD25, Using Appendix B FCD25
Replication Pattern and 246 kW ERP Appendix B Power**

and station

SHORT TO: KWKB 25 IOWA CITY IA BLCDT 20070130AJQ
041-43-29 0091-21-10
Req. separation 223.7 Actual separation 194.2 Short 29.5 km

SHORT TO: WEEK-TV 25 PEORIA IL BLCDT 20030523AFL
040-37-46 0089-32-53
Req. separation 196.3 Actual separation 0.0 Short 196.3 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Proposed Station			
Channel	Call	City/State	ARN
25	WEEK	PEORIA IL	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
25	KWKB	IOWA CITY IA	193.9	LIC	BLCDT -20070130AJQ
25	WEHT	EVANSVILLE IN	351.3	LIC	BLCDT -20011207AAL
25	WRTV	INDIANAPOLIS IN	295.2	LIC	BMLCDT -20050414ABF
25	WCGV-TV	MILWAUKEE WI	306.0	CP MOD	BMPCDT -20010920AAK
26	WCCU	URBANA IL	142.4	CP	BDSTA -20021004ADD

%%%%%%%%%%%%%

Analysis of Interference to Affected Station 1

Analysis of current record
Channel Call City/State Application Ref. No.
25 KWKB IOWA CITY IA BLCDT -20070130AJQ

Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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**OET-69 Interference Study for WEEK-DT, FCD25, Using Appendix B FCD25
Replication Pattern and 246 kW ERP Appendix B Power**

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
25	KTIN	FORT DODGE IA	279.3	CP	BPEDT	-20000427ACH
25	WCGV-TV	MILWAUKEE WI	321.3	CP MOD	BMPCTD	-20010920AAK
26	WKOW-TV	MADISON WI	210.1	CP	BPCDT	-20000501AEY
25	WEEK	PEORIA IL	193.9	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 1
 Before Analysis

Results for: 25A IA IOWA CITY BLCDT 20070130AJQ LIC
 HAAT 419.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1084799	34115.1
not affected by terrain losses	1073188	33752.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3766	205.4
lost to ATV IX only	3766	205.4
lost to all IX	3766	205.4

Potential Interfering Stations Included in above Scenario 1

25A IA FORT DODGE	BPEDT	20000427ACH	CP
25A WI MILWAUKEE	BMPCTD	20010920AAK	CP

After Analysis

Results for: 25A IA IOWA CITY BLCDT 20070130AJQ LIC
 HAAT 419.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1084799	34115.1
not affected by terrain losses	1073188	33752.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15058	620.1
lost to ATV IX only	15058	620.1
lost to all IX	15058	620.1

Potential Interfering Stations Included in above Scenario 1

25A IA FORT DODGE	BPEDT	20000427ACH	CP
25A WI MILWAUKEE	BMPCTD	20010920AAK	CP
25A IL PEORIA	USERRECORD01		APP

The following station failed the de minimis interference criteria.

25D IL PEORIA USERRECORD01
 ERP 245.80 kW HAAT 211.0 m RCAMSL 400.0 m
 Antenna CDB 00000000075203

Due to interference to the following station and scenario: 1
 25D IA IOWA CITY BLCDT 20070130AJQ
 ERP 1000.00 kW HAAT 419.0 m RCAMSL 652.0 m
 Antenna CDB 00000000039521

Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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**OET-69 Interference Study for WEEK-DT, FCD25, Using Appendix B FCD25
Replication Pattern and 246 kW ERP Appendix B Power**

Percent Service lost without proposal: 0.0 to BLCDT 20070130AJQ
Percent Service lost with proposal: 1.1 to BLCDT 20070130AJQ

Worst case new IX 1.0559% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WEHT	EVANSVILLE IN	BLCDT -20011207AAL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
25	WRTV	INDIANAPOLIS IN	255.1	LIC	BMLCDT -20050414ABF
25	WPTY-TV	MEMPHIS TN	348.9	CP	BPCDT -19990914AAC
26	WLKY-TV	LOUISVILLE KY	161.9	LIC	BLCDT -20030129AFL
25	WEEK	PEORIA IL	351.3	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WRTV	INDIANAPOLIS IN	BMLCDT -20050414ABF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	WPTA	FORT WAYNE IN	158.9	LIC	BLCDT -20031031AGU
24	WCVN-TV	COVINGTON KY	174.5	LIC	BLEDT -20020201ABJ
25	WEHT	EVANSVILLE IN	255.1	LIC	BLCDT -20011207AAL
25	WCGV-TV	MILWAUKEE WI	382.5	CP MOD	BMPCT -20010920AAK
26	WCCU	URBANA IL	152.9	CP	BDSTA -20021004ADD
26	WLKY-TV	LOUISVILLE KY	173.1	LIC	BLCDT -20030129AFL
26	WBDT	SPRINGFIELD OH	167.3	LIC	BLCDT -20030224ABC
25	WEEK	PEORIA IL	295.2	APP	USERRECORD-01

Total scenarios = 1

Result key: 2

Scenario 1 Affected station 3

Before Analysis

Results for: 25A IN INDIANAPOLIS BMLCDT 20050414ABF LIC

HAAT 294.0 m, ATV ERP 898.0 kW

POPULATION AREA (sq km)

within Noise Limited Contour 2619120 29887.6

not affected by terrain losses 2606415 29548.0

Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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**OET-69 Interference Study for WEEK-DT, FCD25, Using Appendix B FCD25
Replication Pattern and 246 kW ERP Appendix B Power**

lost to NTSC IX	0	0.0
lost to additional IX by ATV	1377	59.9
lost to ATV IX only	1377	59.9
lost to all IX	1377	59.9

Potential Interfering Stations Included in above Scenario 1

25A IN EVANSVILLE	BLCDT	20011207AAL	LIC
26A KY LOUISVILLE	BLCDT	20030129AFL	LIC

After Analysis

Results for: 25A IN INDIANAPOLIS BMLCDT 20050414ABF LIC

HAAT 294.0 m, ATV ERP 898.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2619120	29887.6
not affected by terrain losses	2606415	29548.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3249	79.9
lost to ATV IX only	3249	79.9
lost to all IX	3249	79.9

Potential Interfering Stations Included in above Scenario 1

25A IN EVANSVILLE	BLCDT	20011207AAL	LIC
26A KY LOUISVILLE	BLCDT	20030129AFL	LIC
25A IL PEORIA	USERRECORD01		APP

Percent new IX = 0.0719%

Worst case new IX 0.0719% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WCGV-TV	MILWAUKEE WI	BMPCTD -20010920AAK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	WTMJ	MUSKEGON MI	163.5	CP	BPCDT -19990803LG
25	KWKB	IOWA CITY IA	321.3	LIC	BLCDT -20070130AJQ
25	WRTV	INDIANAPOLIS IN	382.5	LIC	BMLCDT -20050414ABF
26	WKOW-TV	MADISON WI	132.4	CP	BPCDT -20000501AEY
25	WEEK	PEORIA IL	306.0	APP	USERRECORD-01

Total scenarios = 1

Result key: 3

Scenario 1 Affected station 4

Before Analysis

Results for: 25A WI MILWAUKEE BMPCTD 20010920AAK CP

HAMMETT & EDISON, INC.

CONSULTING ENGINEERS
SAN FRANCISCO

071025
Figure 2E

Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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**OET-69 Interference Study for WEEK-DT, FCD25, Using Appendix B FCD25
Replication Pattern and 246 kW ERP Appendix B Power**

HAAT 340.0 m, ATV ERP 625.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2909958	26948.8
not affected by terrain losses	2905485	26828.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	31855	620.2
lost to ATV IX only	31855	620.2
lost to all IX	31855	620.2

Potential Interfering Stations Included in above Scenario 1

25A IA IOWA CITY	BLCDT	20070130AJQ	LIC
25A IN INDIANAPOLIS	BMLCDT	20050414ABF	LIC
26A WI MADISON	BPCDT	20000501AEY	CP

After Analysis

Results for: 25A WI MILWAUKEE
HAAT 340.0 m, ATV ERP 625.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2909958	26948.8
not affected by terrain losses	2905485	26828.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	31855	620.2
lost to ATV IX only	31855	620.2
lost to all IX	31855	620.2

Potential Interfering Stations Included in above Scenario 1

25A IA IOWA CITY	BLCDT	20070130AJQ	LIC
25A IN INDIANAPOLIS	BMLCDT	20050414ABF	LIC
26A WI MADISON	BPCDT	20000501AEY	CP
25A IL PEORIA	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
26	WCCU	URBANA IL	BDSTA -20021004ADD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
25	WRTV	INDIANAPOLIS IN	152.9	LIC	BMLCDT -20050414ABF
26	WLKY-TV	LOUISVILLE KY	280.8	LIC	BLCDT -20030129AFL
26	KPLR-TV	ST. LOUIS MO	283.0	LIC	BLCDT -20030812ABY
26	WBDF	SPRINGFIELD OH	318.5	LIC	BLCDT -20030224ABC
26	WKOW-TV	MADISON WI	333.2	CP	BPCDT -20000501AEY
27	WCIU-TV	CHICAGO IL	175.7	CP MOD	BMPCT -20021202ABR
27	WIPX	BLOOMINGTON IN	181.9	LIC	BLCDT -20040406AAH
25	WEEK	PEORIA IL	142.4	APP	USERRECORD-01

**Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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**OET-69 Interference Study for WEEK-DT, FCD25, Using Appendix B FCD25
Replication Pattern and 246 kW ERP Appendix B Power**

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WEEK	PEORIA IL	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
25	KWKB	IOWA CITY IA	193.9	LIC	BLCDT -20070130AJQ
25	WEHT	EVANSVILLE IN	351.3	LIC	BLCDT -20011207AAL
25	WRTV	INDIANAPOLIS IN	295.2	LIC	BMLCDT -20050414ABF
25	WCGV-TV	MILWAUKEE WI	306.0	CP MOD	BMPCDT -20010920AAK
26	WCCU	URBANA IL	142.4	CP	BDSTA -20021004ADD

Total scenarios = 1

Result key: 4

Scenario 1 Affected station 6

Before Analysis

Results for: 25A IL PEORIA USERRECORD01 APP

HAAT 211.0 m, ATV ERP 245.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	663787	17886.9
not affected by terrain losses	663693	17866.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	11475	395.6
lost to ATV IX only	11475	395.6
lost to all IX	11475	395.6

Potential Interfering Stations Included in above Scenario 1

25A IA IOWA CITY	BLCDT	20070130AJQ	LIC
25A IN INDIANAPOLIS	BMLCDT	20050414ABF	LIC
25A WI MILWAUKEE	BMPCDT	20010920AAK	CP

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

**Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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**OET-69 Interference Study for WEEK-DT, FCD25, Using WEEK, N25
Pattern and 246 kW ERP Appendix B Power**

Percent allowed new interference: 0.100
Percent allowed new interference to Class A: 0.100
Census data selected 2000

Post Transition Data Base Selected
/space/software/cdbs/tvdb.sff_B
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 10-24-2007 Time: 12:06:04

Record Selected for Analysis

WEEK USERRECORD-01 PEORIA IL US
Channel 25 ERP 246. kW HAAT 211. m RCAMSL 00400 m
Latitude 040-37-46 Longitude 0089-32-53
Status APP Zone 2 Border
Dir Antenna Make CDB Model 00000000046320 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	141.716	256.6	76.6
45.0	159.216	185.8	71.9
90.0	141.716	172.4	70.3
135.0	159.216	193.1	72.5
180.0	141.716	180.7	71.0
225.0	159.216	226.4	75.0
270.0	141.716	230.7	74.7
315.0	159.216	241.8	76.1

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WEEK 25 PEORIA IL USERRECORD01

**Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
MB Docket 87-268 Seventh R&O Petition for Reconsideration**

**OET-69 Interference Study for WEEK-DT, FCD25, Using WEEK, N25
Pattern and 246 kW ERP Appendix B Power**

and station

SHORT TO: KWKB 25 IOWA CITY IA BLCDT 20070130AJQ
041-43-29 0091-21-10
Req. separation 223.7 Actual separation 194.2 Short 29.5 km

SHORT TO: WEEK-TV 25 PEORIA IL BLCDT 20030523AFL
040-37-46 0089-32-53
Req. separation 196.3 Actual separation 0.0 Short 196.3 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Proposed Station			
Channel	Call	City/State	ARN
25	WEEK	PEORIA IL	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
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25	WCGV-TV	MILWAUKEE WI	306.0	CP MOD	BMPCTD	-20010920AAK
26	WCCU	URBANA IL	142.4	CP	BDSTA	-20021004ADD

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	KWKB	IOWA CITY IA	BLCDT -20070130AJQ

Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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OET-69 Interference Study for WEEK-DT, FCD25, Using WEEK, N25 Pattern and 246 kW ERP Appendix B Power

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
25	KTIN	FORT DODGE IA	279.3	CP	BPEDT	-20000427ACH
25	WCGV-TV	MILWAUKEE WI	321.3	CP MOD	BMPCTD	-20010920AAK
26	WKOW-TV	MADISON WI	210.1	CP	BPCDT	-20000501AEY
25	WEEK	PEORIA IL	193.9	APP	USERRECORD	01

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 25A IA IOWA CITY BLCDT 20070130AJQ LIC
HAAT 419.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1084799	34115.1
not affected by terrain losses	1073188	33752.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3766	205.4
lost to ATV IX only	3766	205.4
lost to all IX	3766	205.4

Potential Interfering Stations Included in above Scenario 1

25A IA FORT DODGE	BPEDT	20000427ACH	CP
25A WI MILWAUKEE	BMPCTD	20010920AAK	CP

After Analysis

Results for: 25A IA IOWA CITY BLCDT 20070130AJQ LIC
HAAT 419.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1084799	34115.1
not affected by terrain losses	1073188	33752.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15515	608.0
lost to ATV IX only	15515	608.0
lost to all IX	15515	608.0

Potential Interfering Stations Included in above Scenario 1

25A IA FORT DODGE	BPEDT	20000427ACH	CP
25A WI MILWAUKEE	BMPCTD	20010920AAK	CP
25A IL PEORIA	USERRECORD01		APP

The following station failed the de minimis interference criteria.

25D IL PEORIA USERRECORD01
ERP 246.00 kW HAAT 211.0 m RCAMSL 400.0 m
Antenna CDB 00000000046320

Due to interference to the following station and scenario: 1
25D IA IOWA CITY BLCDT 20070130AJQ
ERP 1000.00 kW HAAT 419.0 m RCAMSL 652.0 m
Antenna CDB 00000000039521

**Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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Pattern and 246 kW ERP Appendix B Power**

Percent Service lost without proposal: 0.0 to BLCDT 20070130AJQ
Percent Service lost with proposal: 1.1 to BLCDT 20070130AJQ

Worst case new IX 1.0986% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WEHT	EVANSVILLE IN	BLCDT -20011207AAL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
25	WRTV	INDIANAPOLIS IN	255.1	LIC	BMLCDT -20050414ABF
25	WPTY-TV	MEMPHIS TN	348.9	CP	BPCDT -19990914AAC
26	WLKY-TV	LOUISVILLE KY	161.9	LIC	BLCDT -20030129AFL
25	WEEK	PEORIA IL	351.3	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WRTV	INDIANAPOLIS IN	BMLCDT -20050414ABF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	WPTA	FORT WAYNE IN	158.9	LIC	BLCDT -20031031AGU
24	WCVN-TV	COVINGTON KY	174.5	LIC	BLEDT -20020201ABJ
25	WEHT	EVANSVILLE IN	255.1	LIC	BLCDT -20011207AAL
25	WCGV-TV	MILWAUKEE WI	382.5	CP MOD	BMPCT -20010920AAK
26	WCCU	URBANA IL	152.9	CP	BDSTA -20021004ADD
26	WLKY-TV	LOUISVILLE KY	173.1	LIC	BLCDT -20030129AFL
26	WBDT	SPRINGFIELD OH	167.3	LIC	BLCDT -20030224ABC
25	WEEK	PEORIA IL	295.2	APP	USERRECORD-01

Total scenarios = 1

Result key: 2

Scenario 1 Affected station 3

Before Analysis

Results for: 25A IN INDIANAPOLIS BMLCDT 20050414ABF LIC

HAAT 294.0 m, ATV ERP 898.0 kW

POPULATION AREA (sq km)

within Noise Limited Contour 2619120 29887.6

not affected by terrain losses 2606415 29548.0

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CONSULTING ENGINEERS
SAN FRANCISCO

071025
Figure 3D

Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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lost to NTSC IX	0	0.0
lost to additional IX by ATV	1377	59.9
lost to ATV IX only	1377	59.9
lost to all IX	1377	59.9

Potential Interfering Stations Included in above Scenario 1

25A IN EVANSVILLE	BLCDT	20011207AAL	LIC
26A KY LOUISVILLE	BLCDT	20030129AFL	LIC

After Analysis

Results for: 25A IN INDIANAPOLIS BMLCDT 20050414ABF LIC

HAAT 294.0 m, ATV ERP 898.0 kW

POPULATION	AREA (sq km)
within Noise Limited Contour	2619120 29887.6
not affected by terrain losses	2606415 29548.0
lost to NTSC IX	0 0.0
lost to additional IX by ATV	3249 79.9
lost to ATV IX only	3249 79.9
lost to all IX	3249 79.9

Potential Interfering Stations Included in above Scenario 1

25A IN EVANSVILLE	BLCDT	20011207AAL	LIC
26A KY LOUISVILLE	BLCDT	20030129AFL	LIC
25A IL PEORIA	USERRECORD01 APP		

Percent new IX = 0.0719%

Worst case new IX 0.0719% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WCGV-TV	MILWAUKEE WI	BMPCTD -20010920AAK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	WTMJ	MUSKEGON MI	163.5	CP	BPCDT -19990803LG
25	KWKB	IOWA CITY IA	321.3	LIC	BLCDT -20070130AJQ
25	WRTV	INDIANAPOLIS IN	382.5	LIC	BMLCDT -20050414ABF
26	WKOW-TV	MADISON WI	132.4	CP	BPCDT -20000501AEY
25	WEEK	PEORIA IL	306.0	APP	USERRECORD-01

Total scenarios = 1

Result key: 3

Scenario 1 Affected station 4

Before Analysis

Results for: 25A WI MILWAUKEE BMPCTD 20010920AAK CP

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SAN FRANCISCO

071025
Figure 3E

Stations WEEK-TV • N25/D57/FCD25 • Peoria, Illinois
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OET-69 Interference Study for WEEK-DT, FCD25, Using WEEK, N25 Pattern and 246 kW ERP Appendix B Power

HAAT 340.0 m, ATV ERP 625.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2909958	26948.8
not affected by terrain losses	2905485	26828.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	31855	620.2
lost to ATV IX only	31855	620.2
lost to all IX	31855	620.2

Potential Interfering Stations Included in above Scenario 1

25A IA IOWA CITY	BLCDT	20070130AJQ	LIC
25A IN INDIANAPOLIS	BMLCDT	20050414ABF	LIC
26A WI MADISON	BPCDT	20000501AEY	CP

After Analysis

Results for: 25A WI MILWAUKEE
 HAAT 340.0 m, ATV ERP 625.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2909958	26948.8
not affected by terrain losses	2905485	26828.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	31855	620.2
lost to ATV IX only	31855	620.2
lost to all IX	31855	620.2

Potential Interfering Stations Included in above Scenario 1

25A IA IOWA CITY	BLCDT	20070130AJQ	LIC
25A IN INDIANAPOLIS	BMLCDT	20050414ABF	LIC
26A WI MADISON	BPCDT	20000501AEY	CP
25A IL PEORIA	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
26	WCCU	URBANA IL	BDSTA -20021004ADD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
25	WRTV	INDIANAPOLIS IN	152.9	LIC	BMLCDT -20050414ABF
26	WLKY-TV	LOUISVILLE KY	280.8	LIC	BLCDT -20030129AFL
26	KPLR-TV	ST. LOUIS MO	283.0	LIC	BLCDT -20030812ABY
26	WBDF	SPRINGFIELD OH	318.5	LIC	BLCDT -20030224ABC
26	WKOW-TV	MADISON WI	333.2	CP	BPCDT -20000501AEY
27	WCIU-TV	CHICAGO IL	175.7	CP MOD	BMPCTD -20021202ABR
27	WIPX	BLOOMINGTON IN	181.9	LIC	BLCDT -20040406AAH
25	WEEK	PEORIA IL	142.4	APP	USERRECORD-01

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**OET-69 Interference Study for WEEK-DT, FCD25, Using WEEK, N25
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Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WEEK	PEORIA IL	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
25	KWKB	IOWA CITY IA	193.9	LIC	BLCDT -20070130AJQ
25	WEHT	EVANSVILLE IN	351.3	LIC	BLCDT -20011207AAL
25	WRTV	INDIANAPOLIS IN	295.2	LIC	BMLCDT -20050414ABF
25	WCGV-TV	MILWAUKEE WI	306.0	CP MOD	BMPCDT -20010920AAK
26	WCCU	URBANA IL	142.4	CP	BDSTA -20021004ADD

Total scenarios = 1

Result key: 4

Scenario 1 Affected station 6

Before Analysis

Results for: 25A IL PEORIA USERRECORD01 APP

HAAT 211.0 m, ATV ERP 246.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	670820	18038.3
not affected by terrain losses	670768	18014.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10138	399.6
lost to ATV IX only	10138	399.6
lost to all IX	10138	399.6

Potential Interfering Stations Included in above Scenario 1

25A IA IOWA CITY	BLCDT	20070130AJQ	LIC
25A IN INDIANAPOLIS	BMLCDT	20050414ABF	LIC
25A WI MILWAUKEE	BMPCDT	20010920AAK	CP

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